

- a thin narrow strip member joining the mid-areas of said end plates;
- 5 a series of first narrow bracing members extending from positions adjacent a mid-point of said narrow strip member to positions spaced a short distance from the ends of said end plates; and
- 10 a series of second narrow bracing members extending from positions on said first bracing members to positions on said strip member intermediate said plates and said mid-point of said strip member.
- 15 2. The component of claim 1 wherein said second bracing members are oriented substantially vertically.
3. The component of claim 2 wherein an edge of each said second bracing member closest to said mid-point of said narrow strip is substantially flush with said inner surface of a respective said panel.
- 20 4. The component of claim 3 including a series of short outer transverse stiffening members extending from said narrow strip vertically along said edges of said second bracing members and substantially flush with said inner surfaces of respective said panels.
- 25 5. The component of claim 4 wherein said stiffening members include a short 90 degree extension across respective said second bracing members into respective said panels.
6. The component of claim 1 including a central transverse stiffening member on each side of said mid-point of said narrow strip.
- 30 7. The component of claim 1 wherein said narrow strip includes a widened area about its mid-point with which said first bracing members are integral and which includes a predetermined pattern of seats whereby rebar may be selectively positioned relative to said component.
- 35 8. The component of claim 7 wherein said seats are defined in part by yieldable members whereby to provide snap fit for said rebar.
9. The component of claim 1 wherein lines through said series of first bracing members form an "X" pattern between said end plates.
- 40 10. The component of claim 1 including an elongated stiffening rib along an inner face of said end plates, said rib integral with ends of said first bracing members.
11. The component of claim 1 wherein said narrow strip has a stepped configuration in which an upper part of said strip is horizontally offset from a lower part thereof.
- 45 12. For use in a building component comprising first and second high density foam panels each having inner and outer surfaces, top and bottom, and first and second ends, said panels arranged in spaced parallel relationship with their inner surfaces facing each other, and at least two bridging members extending between and through and molded into said panel members; an improved bridging member comprising:
- 50 a pair of elongated end plates oriented vertically and abutting against said outer surfaces of said panels;
- 55 a thin narrow strip member joining the mid-areas of said end plates;
- 60 a series of first narrow bracing members extending from positions adjacent a mid-point of said narrow strip member to positions spaced a short distance from the ends of said end plates; and
- 65 a series of second narrow bracing members extending from positions on said first bracing members to positions on said strip member intermediate said plates and said mid-point of said strip member.
13. A building component comprising:
- first and second high density foam panels each having inner and outer surfaces, top and bottom, and first and

second ends. said panels arranged in spaced parallel relationship with their inner surfaces facing each other. and

at least two bridging members extending between and through and molded into said panel members.

and wherein said top of one said panel is substantially thicker than the bottom thereof. said outer surface of said one panel is profiled to extend outwardly and upwardly from said bottom thereof to said top thereof. and wherein said inside surface of said thicker part is partially cut away in areas spaced from said bridging members.

14. The component of claim 13 wherein said outer surface of said one panel includes a lower vertical part, an upper vertical part, and an intermediate part connecting said lower and upper parts.

15. The component of claim 14 wherein said cut away parts follow the profile of but are spaced from said outer surface of said one panel.

16. A building component comprising:

first and second high density foam panels each having inner and outer surfaces, top and bottom, and first and second ends. said panels arranged in spaced parallel relationship with their inner surfaces facing each other. and

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at least two bridging members extending between and through and molded into said panel members.

each said bridging member comprising:

5 a pair of elongated end plates oriented vertically and abutting against said outer surfaces of said panels;

a thin narrow strip member joining the mid-areas of said end plates;

10 a series of first narrow bracing members extending from positions adjacent a mid-point of said narrow strip member to positions spaced a short distance from the ends of said end plates;

a series of second narrow bracing members extending from positions on said first bracing members to positions on said strip member intermediate said plates and said mid-point of said strip member;

15 and wherein said top of one said panel is substantially thicker than the bottom thereof, said outer surface of said one panel is profiled to extend outwardly and upwardly from said bottom thereof to said top thereof, and wherein said inside surface of said thicker part is partially cut away in areas not containing said bridging members.

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17. (New) A building component comprising:

first and second insulating foam panels arranged to define therebetween a space for receiving pourable building material, and at least two bridging members extending between and connecting said panels.

each bridging member comprising:

a pair of end plates;

a thin narrow strip member joining the mid-areas of said end plates;

a series of first narrow bracing members extending from positions adjacent a mid-point of said narrow strip member to positions spaced a short distance from the ends of said end plates; and

a series of second narrow bracing members extending from positions on said first bracing members to positions on said strip member intermediate said plates and said mid-point of said strip member.

18. (New) The building component of claim 17, wherein said end plates are

elongated and are orientated substantially vertically.

19. (New) The building component of claim 17, wherein said end plates extend

substantially from a top end to a bottom end of said panels.

20. (New) The building component of claim 17, wherein said pair of end plates abut against outer surfaces of said panels.

21. (New) The building component of claim 17, wherein said bridging members are molded into said panels.

22. (New) The building component of claim 17, wherein each of said bridging members further comprises first and second transverse stiffeners extending vertically along said bridging member and substantially flush with inner surfaces of said first and second panels.

23. (New) A bridging member for connecting opposed foam panels of an insulated concrete form wall, said bridging member comprising:

a pair of end plates;

a thin narrow strip member joining the mid-areas of said end plates;

a series of first narrow bracing members extending from positions adjacent a mid-point of said narrow strip member to positions spaced a short distance from the ends of said end plates; and

a series of second narrow bracing members extending from positions on said first bracing members to positions on said strip member intermediate said plates and said mid-point of said strip member.

Sub a' 24. (New) A building component comprising:

first and second insulating foam panels each having inner and outer surfaces, a top and a bottom, said panels being arranged to define a space therebetween for receiving pourable building material;

at least two bridging members extending between and connecting said panels;
and
wherein said first panel extends outwardly and upwardly from said bottom thereof
to define a supporting shelf.

25. (New) The building component of claim 24 wherein said outer surface of said
first panel includes a lower vertical part, an upper vertical part, and an intermediate part
connecting said lower and upper parts, said intermediate part being angled relative to said
vertical parts.

26. (New) The building component of claim 24 wherein said top of said first panel is
substantially thicker than said bottom thereof, said outer surface of said first panel is
profiled to extend outwardly and upwardly from said bottom thereof to said top thereof,
and wherein said inner surface of said top is partially cut away in areas spaced from said
bridging members of said first panel.

27. (New) The building component of claim 26 wherein said cut away parts follow
the profile of, but are spaced from, said outer surface of said first panel.

28. (New) The building component of claim 24, wherein said first panel further
includes at least two members extending inwardly from said first panel inner surface,
each of said extending members having a top portion, a bottom portion and an

intermediate portion extending therebetween, said top portion being substantially thicker than said bottom portion.

29. (New) The building component of claim 28, wherein said extending members comprise partitions connected with said first panel.

30. (New) The building component of claim 29, wherein said partitions are integrally formed from insulating foam material with said first panel.

31. (New) The building component of claim 28, wherein each of said bridging members include a first end connected to one of said extending members and a second end connected to said second panel.

32. (New) The building component of claim 28, wherein each of said bridging members include a pair of end plates, with a first one of said end plates being molded into one of said extending members and a second one of said end plates being molded into said second panel.

33. (New) The building component of claim 32, wherein each of said end plates abuts the outer surface of one of said first and second panels.

34. (New) The building component of claim 24, wherein said bridging members are molded into said first and second panels.

35. (New) The building component of claim 24, wherein said bridging members including a pair of end plates, wherein each of said end plates abuts the outer surface of one of said first and second panels.

36. (New) The building component of claim 24, wherein said bridging members are formed integrally from one piece of material.

37. (New) The building component of claim 24, wherein said bridging members are disposed symmetrically about a vertical axis.

38. (New) The building component of claim 28, wherein said top portions of said extending members define at least a portion of said supporting shelf.

39. (New) The building component of claim 24, wherein said supporting shelf includes a top surface of building material received within said space.

40. (New) The building component of claim 24, wherein the building material received within said space defines a vertical wall portion integral with said supporting shelf.

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41. (New) A building component comprising:
first and second insulating foam panels arranged to define therebetween a space
for receiving pourable building material, and
at least two bridging members extending between and connecting said panels,
each bridging member comprising:
a pair of end plates;
a thin narrow strip member joining the mid-areas of said end plates;
a series of first narrow bracing members extending from positions adjacent a mid-
point of said narrow strip member to positions spaced a short distance from the ends of
said end plates;
a series of second narrow bracing members extending from positions on said first
bracing members to positions on said strip member intermediate said end plates and said
mid-point of said strip member; and
wherein said first panel extends outwardly and upwardly from a bottom portion
thereof to define a supporting shelf.

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